A. Fully affected families:

i. Urban-5291

ii. Rural-5429

B. Partially affected families (not to be dislocated):

i. Urban-NIL

ii. Rural-3810

Modernization of existing power plants

3128. SHRI N. R. GOVINDARAJAR: Will the Minister of POWER be pleased to state:

(a) whether Government propose to renovate/modernize the existing power plants in the country;

(b) if so, the details of the power projects/plants proposed to be modernized during the Tenth Five Year Plan, State-wise; and

(c) the extent to which power generation capacity of each project/plant is likely to be increased after modernization along with the expenditure involved?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) Yes, Sir,

(b) and (c) Government of India has identified 106 old thermal units having capacity of 10413 MW for Life Extension (LE) works during the Tenth Plan at an estimated cost of Rs. 9200.00 Crores. After implementation of the LE Scheme, the economical life of the units would get extended by another 15—20 years and the generating capacity would increase to 10747 MW besides overall improvement in the performance of the units. In addition, 57 thermal units having capacity of 14270 MW, which are comparatively new units and are performing well, have also been identifed for Renovation & Modernization (R&M) works to sustain their perfommance at an estimated cost of Rs. 977.00 Crores.

Government of India have also identified a programme to renovate 62 exiting hydroelectric power projects having installed capacity of 9977.5 MW for implementation during the Tenth Plan at an estimated cost of Rs. 2927.062 crores. After implementation of the Programme, a benefit in the form of 1516.31 MW would be accrued.

The State-wise details of the units identified for R&M & LE of Thermal units and Renovation of Hydro Power Projects for implementation during the Tenth Plan are annexed as Statement.

Statement

State-wise details of units identified for Rand M and LE during the Tenth Plan

(a) Thermal Units identified for life extension during Tenth Plan

SI. No.	Name of station/units	Present rated capacity (MW)	Maximum output (MW)	Capacity expected after LEP(MW)	Additional power generation (MW)	Estimated Cost (Rs. In Crores)
1	2	3	4	5	6	7
DELHI						
1	Badarpur Units 1-5	705	705	720	15	420
HARYANA						
2.	Panipat Units 1,3&4	330	300	330	30	260
3.	Faridabad Units 1-3	165	159	180	21	150
PUNJAB						
4.	Bhatinda Units 1-4	440	400	440	40	520
UTTAR PRADESH						
5.	Obra Units 1-13	1482	1335	1550	210	1400
6	Panki Units 3-4	210	190	220	30	120
7	Harduagunj Units 1,3,4,5 & 7	325	235	340	105	285
MAHARASHTRA						
8.	Nasik Units 1-2	280	250	280	30	280
9.	Paras Units-2	58	58	62.5	4.5	60
10	Bhusawal Unit-1	58	58	62.5	4.5	60
11.	Koradi Units-14	460	440	480	40	480
12.	Parli Units 1-2	60	60	60	0	60
CHHATTISGARH						
13.	Korba (East) Units 1,4,5 & 6	320	280	340	60	240
MADHYA PRADESH						
14.	Satpura Units 1-5	310.25	300	310.25	10.25	350

1	2	3	4	5	-6	7
15.	Amarkantak Units 1-4	290	240	300	60	200
GUJARAT						
16	Gandhinagar Units 1-2	240	200	240	40	240
17.	Dhuvaran Units 1-6	534	422	534	112	220
18.	Ukai Units 1-2	240	210	240	30	240
TAMIL NADU						
19.	Ennore Units 1-2	120	100	120	20	100
20.	Tuticorin Units 1-3	630	630	630	0	300
ANDHRA PRADESH						
21.	Vijayawada Units1-2	420	420	420	0	300
22.	Kothagudem Units 6-8	325	300	360	60	320
WEST BENGAL						
23.	Santaldih Units 1-3	360	260	360	100	400
24.	Bandel Units 1-4	320	260	330	70	340
25.	Durgapur-DVC Unit-3	140	110	140	30	165
JHARKHAND						
26.	Chandrapura-DVC Units1-6	750	570	780	210	780
27.	Bokaro Units 1-3	135	0	172.5	172.5	50
28.	Patratu Units 4-8	430	315	470	155	500
BIHAR						
29	Barauni Units 4-5	100	0	100	100	200
ASSAM						
30.	Chandrapur Unit-1	30	0	30	30	30
31.	Namrup Unit-1	23	23	23	0	30
32.	Bongaigaon Units 1-2	120	0	120	120	100

(b) Thermal Units identified for R&M during Tenth Plan

SI. No.	Name of Station	Unit	Capacity (MW)	Estimate Cost (Rs. in Crores)
1	2	3	4	5
RAJASTHAN				
1.	Kota	1-5	850	60.97
PUNJAB				
2.	Ropar	1-6	1260	101.64
MAHARASHTRA				
3.	Nasik	3-5	630	48.47
4.	Koradi	5-7	630	54.35
5.	Chandrapur	1-6	1840	62.21
6.	Parli	3-5	1640	31.21
7.	Khaperkheda	1-2	630	6.47
8.	Bhusawal	2-3	420	24.03
GUJARAT				
9.	Kutch Lignite	1-2	140	103.7
MADHYA PRADESH				
10.	Singrauli	1-7	2000	184.23
11.	Vindhyachal	1-6	1260	111.19
CHHATISGARH				
12.	Korba STPS	1-6	2100	109.26
ANDHRA PRADESH				
13.	Ramagundem	1-6	2100	80.28

(c) Tenth Plan State-wise list of Hydro R&M Schemes

SI. No.	Scheme/Agency	Inst. Cap. (MW)	Estimated Cost (Rs. in Crs.)	Benefits (MW)	Category
1	2	3	4	5	6
Northern Region					
HIMACHAL PRADESH					
1.	Bassi,HPSEB	4x15	28.60	66.00	RMU&LE
JAMMU & KASHMIR					
2.	SalalPh.ll, NHPC	3x11+3X115	87.28	69.00	R&M+Res
3.	Lower Jhelum J & KPDC	3X35	65.19	34.00	RM&U+Res.

1	2	3	4	5	6
4.	Chenani, J & K P D C	5X4.66	23.86	25.63	RMU&LE
5.	Ganderbal, J & K P D C	2X3+2X4.5	28.87	15.00	R M U & L E
6.	Sumbal Sindh J & K P D C	2X11.3	16372	3.00	RM&U
PUNJAB					
7.*	Shanan Ph.A, PSEB	4X15+1X50	11.35	—	R &M
8.*	Pong, BBMB	6X60	17.70	36.00	RM&U
9.	Bhakra LB. BBMB	1X108	97.60	126.00	R M U & L E
10.	Ganguwal, U-1, BBMB	1X29.25	51.28(incl. IDC 6.28	27.99	R M U & L E +Res.
11	Kotla, U-1. BBMB	1X2925	51.28(incl. IDC 6.28)	28 94	R M & L E +Res
12.	Shanan, Ph.B, PSEB	—	35.95	60.00	RM&LE (15MW Units) +R & M (50 MW)
13.	UBDCI&II.PSEB		7.89	45.00	RMU&LE
14	Dehar, BBMB	6x165	11.00	—	R &M
15.	Anandpur Sahib, PSEB	4x33 5	3.68	—	R &M
16	Mukerian St. I, PSEB	3x15	6.04	—	R &M
RAJASTHAN					
17.	Jawahar Sagar, R R V U N L	3x33	88.66	—	R &M
18	Rana Pratap Sagar, RRVUNL	4x43	87 50	—	R &M
UTTARANCHAL					
19.	Chibro, UJVNL	4x60	20.90	—	R &M
20.	Khodri, UJVNL	4x30	10.50	—	R &M
21.	ChiUa, UJVNL	4x36	47.10	—	R &M
22.	Pathri, UJVNL	3x6.8	28.69	20.40	R M U & L E
23.	Kulhal, UJVNL	3x10	21.62	—	R &M
24.	Ramganga, UJVNL	3x66	31.65	18.00	R & M+Res.

1 2	3	4	5	6
Southern Region				
ANDHRA PRADESH				
25. Lower Sileru,	4x115	8.75	—	R &M
26. Nagarjuna Sagar, A P G E N O C O	1x110+ 7x100.8	33.35	-	R &M
27. Upper Sileru, A P G E N O C O	4x60	4.20	-	R &M
28 Srisaliam RB, A P G E N O C O	7x10	16.70	-	R &M
KARNATAKA				
29.* Nagjhari, U-1&3 KPCL	2x135	26.12	30.00	RM&U
30.* Supa PH. KPCL	2x50	2.64	-	R &M
31* Mahatama Gandhi, VVNL	4x12+4x18	44.66	139.20	RMU&LE
32.* Munirabad, WNL	2x9+1X10.3	3.64	28.30	R M & L E
33.* Mani Dam, KPCL	2x4.5	1.00	-	R &M
34.* Shivasamudram VVNL	6x3+4x6	68.38	42.00	RM&LE
35. Bhadra.Ph. II, KPCL	1x2	3.30	2.00	RM&LE
36. Varahi, KPCL	2x115	2.57	-	R &M
37. Sharavathy, Ph.A, KPCL	10x103.5	5.22	-	R &M
KERALA				
38.* Pallivasal, KSEB	3x5+3x7.5	94.00	37.50	RM &LE
39.* Sengulam.KSEB	4x12	114.00	48.00	RM&LE
40*Panniar,KSEB	2x15	62.00	30.00	R M & L E
41. Neriamangalam KSEB	3x15	31.92	54.00	R M U & L E
TAMILNADU				
42. MetturDam, TNEB	4x10	27.37	50.00	R M U & L E
43. Papanasam.TNEB	4x7	22.79	32.00	RMU&LE
44. PykaraTNEB	3x6.65+1x11+2x14	26.06	58.95	R M & L E
45. Sholayar-TNEB	2x35	40.68	84.00	R M U & L E

1 2	3	4	5	6
Eastern Region				
JHARKHAND				
46. Maithon, U-2 DVC	1x20	42.08	23.20	R M U & L E
47. Panchet, U-1, DVC	1x40	44.96	46.00	R M U & L E
ORISSA				
48. Hirakud-I (Sw. yard), OHPC		9.85		R&M
49 Hirakud-1 U-3&4 OHPC	2x24	126.13	64.00	RMU&LE
50. Hirakud-li OHPC	3x24	125.97	72.00	RM&LE
WEST BENGAL				
51. Jaldhaka St. I&ll, WMSEB	3x9+2x4	53.67	27.00	RM&LE (St.l)+R&M(St. II)
Western Region				
Maharashtra				
52.* Bhira Tail Race, MSEB	2x40	1.60	-	R&M
53.* Tillari.MSEB	1x60	4.50	8.20	RM&U
54.* Koyna Gen Complex, MSEB	4x70+4x80+ 4x80	12.00	-	R&M
55. Koyna St. I&ll, MSEB	-	88.00 (Incl. 25.00 swyd)	-	R&M
56. Koyna St. Ill, MSEB	-	25.00	-	R&M
57. Vaitarna, MSEB	1x60	7.00	6.00	RM&U
58. Koyna Dam PH, MSEB	2x18	20.00	8.00	RM&U
North Eastern Region				
ASSAM				
59. Kopili, U-1&2, N E E P C O	2x50	36.01		R&M

1	2	3	4	5	6
MANIPUR					
60	Loktak. NHPC	3X35	24.50	15.00	R&M+Res.
MEGHALAYA					
61.*	UmiumSU MeSEB	4x9	81.88	36.00	RM&LE
62.*	Khandong, NEEPCO	2X25	4.00	-	R&M
	TOTAL :	9977.50	2227.062	1516.31	

* indicates scheme completed.

Abbreviations: R&M - Renovation & Modernization; RML&U - Renovation, Modernization & Uprating,

RM&LE - Renovation & Modernization & Life Extension RMU&LE -Renovation & Modernization, Uprating & Life Extension; R&M+Res-Renovation & Modernization + Restoration;

RM&LE+Res.-Renovation & Modernization & Life Extension + Restoration;

Setting up of Ultra Mega Power Projects

3129. SHRIMATI SYEDA ANWARA TAIMUR: Will the Minister of POWER be pleased to state:

(a) whether it is a fact that the Centre has planned to invite global tenders to develop four Ultra Mega Power Projects to produce 5,000 MW electricity;

(b) if so, the details thereof;

(c) the States and places selected for such Ultra Mega Power projects; and

(d) whether the Assam has been selected for these projects because of its high potenital to produce power?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) to (c) The Government has taken an initiative for facilitating the development of a few Ultra Mega Power Projects of about 4,000 MW capacity each under tariff based competitive bidding route in the sites to be located in following places:

(A) Sasan in Madhya Pradesh.

(B)Mundra in Gujarat.

(C) Akaltara in Chhattisgarh.